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Permit No.: WA-002318-3
Issuance Date: October 21, 2010
Effective Date: December 1, 2010
Expiration Date: November 30, 2015

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
WASTE DISCHARGE PERMIT NO. WA-002318-3

State of Washington
DEPARTMENT OF ECOLOGY
Yakima, Washington 98902

In compliance with the provisions of
The State of Washington Water Pollution Control Law
Chapter 90.48 Revised Code of Washington
and
The Federal Water Pollution Control Act
(The Clean Water Act)
Title 33 United States Code, Section 1342 et seq.

CITY OF CASHMERE
PUBLICLY-OWNED TREATMENT WORKS
101 WOODRING STREET
CASHMERE, WA 98815

Plant Location:
Riverfront Drive
Cashmere, WA 98815

Receiving Water:
Wenatchee River, River Mile 8.6

Water Body ID #
1203156474560

Discharge Location:
Latitude: 47.5085
Longitude: -120.4479 W

Plant Type:
Industrial pretreatment facility consists of a Bulk Volume Fermenter, an anaerobic reactor. Main treatment plant includes three stabilization ponds, chlorine disinfection, and river discharge through a perforated diffuser.

is authorized to discharge in accordance with the Special and General Conditions that follow.

Charles McKinney
Section Manager
Water Quality Program
Central Regional Office
Washington State Department of Ecology

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SUMMARY OF PERMIT REPORT SUBMITTALS

Refer to the Special and General Conditions of this permit for additional submittal requirements. The following table is for quick reference only. Enforceable submittal requirements are contained in the permit narrative.

| Permit Section | Submittal | Frequency | First Submittal Date |
|----------------|---|----------------|----------------------|
| S3.A. | Discharge Monitoring Report | Monthly | January 15, 2011 |
| S3.E. | Reporting Permit Violations | As necessary | |
| S4.B. | Plans for Maintaining Adequate Capacity | As necessary | |
| S4.D. | Notification of New or Altered Sources | As necessary | |
| S4.E.3. | Infiltration and Inflow Evaluation | 1/permit cycle | November 30, 2014 |
| S4.F.1. | Wasteload Assessment | 1/permit cycle | November 30, 2014 |
| S5.G.1. | Operations and Maintenance Manual Review | Annually | |
| S5.G.2. | Operations and Maintenance Manual Update | As necessary | |
| S8. | Application for Permit Renewal | 1/permit cycle | November 30, 2014 |
| S9.A. | Engineering Documents for the Planned WWTF Upgrade | 1/permit cycle | July 31, 2012 |
| S9.B. | Engineering Plans and Specifications for the Planned WWTF Upgrade | 1/permit cycle | April 30, 2013 |
| S10. | Notice of WWTF Upgrade Completion | | August 25, 2019 |
| G1.C. | Signatory Requirements | As necessary | |
| G4. | Reporting Planned Changes | As necessary | |
| G5. | Plan Review Required | As necessary | |
| G7. | Notice of Permit Transfer | As necessary | |
| G10. | Duty to Provide Information | As necessary | |
| G21. | Contract Review | As necessary | |

SPECIAL CONDITIONS

In this permit, the word “must” denotes an action that is mandatory and is equivalent to the word “shall” used in previous permits.

S1. DISCHARGE LIMITS

A.1. Effluent Limits

All discharges and activities authorized by this permit must comply with the terms and conditions of this permit. The discharge of any of the following pollutants more frequently than, or at a level in excess of, that identified and authorized by this permit violates the terms and conditions of this permit.

Beginning on **December 1, 2010** and lasting through **November 30, 2015**, the Permittee may discharge municipal wastewater to the Wenatchee River at the permitted location subject to compliance with the following limits:

| EFFLUENT LIMITATIONS : OUTFALL # 001 | | |
|---|--|--------------------------------------|
| Parameter | Average Monthly ^a | Average Weekly ^a |
| 5-Day Biochemical Oxygen Demand (BOD ₅) | 45 mg/L, 354 lbs/day and 65% minimum removal | 65 mg/L, 511 lbs/day |
| Total Suspended Solids (TSS) | 75 mg/L, 590 lbs/day | 112 mg/L, 880 lbs/day |
| Fecal Coliform Bacteria | 200/100 mL | 400/100 mL |
| pH | shall not be outside the range of 6.0 to 9.0 | |
| ADDITIONAL EFFLUENT LIMITATIONS: OUTFALL # 001 | | |
| Parameter | Average Monthly | Daily Maximum ^b |
| Total Residual Chlorine | Minimized | 0.05 mg/L ^c , 0.4 lbs/day |
| a-The average monthly and weekly effluent limitations are based on the arithmetic mean of the samples taken with the exception of fecal coliform, which is based on the geometric mean. | | |
| b-The daily maximum effluent limitations are the greatest allowable value for any calendar day. | | |
| c-The method detection level (MDL) for Chlorine is 18 ug/L using EPA method 330.5 (DPD-FAS) from 40 CFR Part 136. Average values shall be calculated as follows: measurements below the MDL = 0; and measurements greater than the MDL = the measurement. | | |

A.2. TMDL Compliance

The Permittee shall make consistent progress toward meeting the requirements of the Wenatchee River pH and Dissolved Oxygen TMDL. The Permittee shall be in compliance with TMDL assigned wasteload allocations no later than **August 25, 2019**.

B. Mixing Zone Authorization

The mixing zone authorized under this permit shall be no larger than that allowed under Chapter 173-201A WAC.

The length of the chronic and acute mixing zones shall extend downstream no greater than 300 feet and 30 feet, respectively. The chronic mixing zone shall extend upstream no greater than 100 feet from the center point of the outfall's discharge opening. The dilution factors for the chronic and acute mixing zones are approximately **113.9** and **23.6**, respectively.

S2. MONITORING REQUIREMENTS

A. Monitoring Schedule

The Permittee must monitor in accordance with the following schedule and must use the laboratory method, detection level (DL), and quantitation level (QL) specified in Appendix A. The Permittee may use alternative methods included in 40 CFR Part 136 if the DL and QL are equivalent to those specified in Appendix A or if the alternative method's DL and QL are low enough to detect the parameter.

| Parameter | Sample Point | Sampling Frequency | Sample Type |
|--------------------------------------|---------------------------------|-------------------------|------------------------------|
| Flow, mgd | BVF Effluent ^a | continuous ^b | On-line measurement |
| | Municipal Influent ^c | continuous | On-line measurement |
| | Final Effluent ^d | continuous | On-line measurement |
| pH, units | BVF Effluent | 2/week ^e | Grab ^f |
| | Municipal Influent | 2/week | Grab |
| | Final Effluent | 2/week | Grab |
| Temperature, °C | Final Effluent | 2/week | Grab |
| Dissolved Oxygen, mg/L | Final Effluent | 2/week | Grab |
| BOD ₅ , mg/L ^g | BVF Influent | 1/week ^h | 24-hr composite ⁱ |
| | BVF Effluent | 1/week | Grab |
| | Municipal Influent | 1/week | 24-hr composite |
| | Final Effluent | 1/week | 24-hr composite |
| BOD ₅ , lbs/day | BVF Effluent | 1/week | Calculation |
| | Municipal Influent | 1/week | Calculation ^j |
| | Final Effluent | 1/week | Calculation |
| BOD ₅ , % removal | Final Effluent ^j | 1/week | Calculation ^k |
| | BVF Influent | 1/week | 24-hr composite |

| Parameter | Sample Point | Sampling Frequency | Sample Type |
|--|--|----------------------------|--|
| TSS, mg/L | BVF Effluent Municipal Influent Final Effluent | 1/week 1/week 1/week | Grab 24-hr composite 24-hr composite |
| TSS, lbs/day | BVF Effluent Municipal Influent Final Effluent | 1/week 1/week 1/week | Calculation Calculation Calculation |
| TSS, % removal | Final Effluent ¹ | 1/week | Calculation |
| Total Residual Chlorine, mg/L | Final Effluent | 1/week | Grab |
| Total Residual Chlorine, lbs/day | Final Effluent | 1/week | Calculation |
| Fecal Coliform Bacteria, #/100 ml | Final Effluent | 2/week | Grab |
| Total Ammonia, mg/L | Final Effluent | 1/week | Grab |
| Total Ammonia, lbs/day | Final Effluent | 1/week | Calculation |
| Total Phosphorous mg/L | Final Effluent | 1/month | Grab |
| Total Phosphorous lbs/Day | Final Effluent | 1/month | Calculation |
| Phosphorous (Summer) ^m mg/L | Final Effluent | 1/week | Grab |
| Phosphorous (Summer) lbs/Day | Final Effluent | 1/week | Calculation |
| Total Kjeldahl Nitrogen mg/L | Final Effluent | 1/month | Grab |
| Total Kjeldahl Nitrogen lbs/Day | Final Effluent | 1/month | Calculation |
| Total Kjeldahl Nitrogen (Summer) mg/L | Final Effluent | 1/week | Grab |
| Total Kjeldahl Nitrogen (Summer) lbs/Day | Final Effluent | 1/week | Calculation |

a BVF means the Bulk Volume Fermenter.

b BVF sampling need only occur when it is in operation. When the BVF is not in operation the Permittee must write "No Discharge" on the appropriate DMR and submit it as required to Ecology

c Municipal Influent means the raw sewage from the municipality, other than from the BVF.

d Final Effluent means wastewater which is exiting, or has exited, the last treatment operation.

e 2/week means samples collected two times every calendar week.

f Grab means an individual sample collected in less than 15 minutes.

g Samples for BOD₅ analysis must be taken before the disinfection process.

h 1/week means samples collected once every calendar week.

i 24-hr composite means a series of, at least, four individual samples collected over a 24-hour period at selected intervals based on an increment of either flow or time, and combined into a single container to be subsequently analyzed as one sample.

j Calculation for lbs/Day loading is Flow in MGD times concentration in mg/L times the constant 8.34.

k Percent removal is calculated using the total influent loadings into the lagoon system, including influent from the City and effluent from the BVF, and the final effluent discharged from the lagoon system.

l Calculation for percent removal is (influent concentration –effluent concentration) / influent concentration times 100.

^m Summer means July 1 through September 30.

B. Sampling and Analytical Procedures

Samples and measurements taken to meet the requirements of this permit must represent the volume and nature of the monitored parameters. The Permittee must conduct representative sampling of any unusual discharge or discharge condition, including bypasses, upsets, and maintenance-related conditions that may affect effluent quality.

Sampling and analytical methods used to meet the monitoring requirements specified in this permit must conform to the latest revision of the *Guidelines Establishing Test Procedures for the Analysis of Pollutants* contained in 40 CFR Part 136.

C. Flow Measurement, Field Measurement and Continuous Monitoring Devices

The Permittee must:

1. Select and use appropriate flow measurement, field measurement, and continuous monitoring devices and methods consistent with accepted scientific practices.
2. Install, calibrate, and maintain these devices to ensure the accuracy of the measurements is consistent with the accepted industry standard and the manufacturer's recommendation for that type of device.
3. If the Permittee uses micro-recording temperature devices known as thermistors it must calibrate the devices using protocols from Ecology's Quality Assurance Project Plan Development Tool (*Continuous Temperature Sampling Protocols for the Environmental Monitoring and Trends*). This document is available online at <http://www.ecy.wa.gov/programs/eap/qa/docs/QAPPtool/Mod6%20Ecology%20SOPs/Protocols/ContinuousTemperatureSampling.pdf> . Calibration as specified in this document is not required if the Permittee uses recording devices which are certified by the manufacturer.
4. Use field measurement devices as directed by the manufacturer and do not use reagents beyond their expiration dates.
5. Calibrate these devices at the frequency recommended by the manufacturer.
6. Calibrate flow monitoring devices at a minimum frequency of at least one calibration per year.
7. Maintain calibration records for at least three years.

D. Laboratory Accreditation

The Permittee must ensure that all monitoring data required by Ecology are prepared by a laboratory registered or accredited under the provisions of chapter 173-50 WAC, *Accreditation of Environmental Laboratories*. Flow, temperature, settleable solids, conductivity, pH, and internal process control parameters are exempt from this requirement. The Permittee must obtain accreditation for conductivity and pH if it must receive accreditation or registration for other parameters.

E. Request for Reduction in Monitoring

The Permittee may request a reduction of the sampling frequency after twelve (12) months of monitoring. Ecology will review each request and at its discretion grant the request through a permit modification or when it reissues the permit.

The Permittee must:

1. Provide a written request.
2. Clearly state the parameters for which it is requesting reduced monitoring.
3. Clearly state the justification for the reduction.

S3. REPORTING AND RECORDING REQUIREMENTS

The Permittee must monitor and report in accordance with the following conditions. Falsification of information submitted to Ecology is a violation of the terms and conditions of this permit.

A. Reporting

The first monitoring period begins on **December 1, 2010** of the permit. The Permittee must:

1. Submit monitoring results each month.
2. Summarize, report, and submit monitoring data obtained during each monitoring period on a Discharge Monitoring Report (DMR) form provided, or otherwise approved, by Ecology.
3. Submit DMR forms monthly whether or not the facility was discharging. If the facility did not discharge during a given monitoring period, submit the form as required with the words "NO DISCHARGE" entered in place of the monitoring results.
4. Ensure that DMR forms are **postmarked or received by** Ecology no later than the 15th day of the month following the completed monitoring period, unless otherwise specified in this permit.

5. Submit priority pollutant analysis data no later than forty-five (45) days following the monitoring.
6. Send report(s) to Ecology at:

Water Quality Permit Coordinator
Central Regional Office
15 West Yakima Avenue, Suite 200
Yakima, WA 98902

All laboratory reports providing data for organic and metal parameters must include the following information: sampling date, sample location, date of analysis, parameter name, CAS number, analytical method/number, method detection limit (MDL), laboratory practical quantitation limit (PQL), reporting units, and concentration detected. Analytical results from samples sent to a contract laboratory must include information on the chain of custody, the analytical method, QA/QC results, and documentation of accreditation for the parameter.

B. Records Retention

The Permittee must retain records of all monitoring information for a minimum of three (3) years. Such information must include all calibration and maintenance records and all original recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit. The Permittee must extend this period of retention during the course of any unresolved litigation regarding the discharge of pollutants by the Permittee or when requested by Ecology.

C. Recording of Results

For each measurement or sample taken, the Permittee must record the following information:

1. The date, exact place, method, and time of sampling or measurement.
2. The individual who performed the sampling or measurement.
3. The dates the analyses were performed.
4. The individual who performed the analyses.
5. The analytical techniques or methods used.
6. The results of all analyses.

D. Additional Monitoring by the Permittee

If the Permittee monitors any pollutant more frequently than required by Condition S2

of this permit, then the Permittee must include the results of such monitoring in the calculation and reporting of the data submitted in the Permittee's DMR.

E. Reporting Permit Violations

The Permittee must take the following actions when it violates or is unable to comply with any permit condition:

- a. Immediately take action to stop, contain, and cleanup unauthorized discharges or otherwise stop the noncompliance and correct the problem.
- b. If applicable, immediately repeat sampling and analysis. Submit the results of any repeat sampling to Ecology within thirty (30) days of sampling.

1. Immediate Reporting

The Permittee must report any failure of the disinfection system, any collection system overflows, or any plant bypass discharging to a waterbody used as a source of drinking water immediately to the Department of Ecology and the Department of Health, Drinking Water Program at the numbers listed below:

| | |
|-------------------------|---------------------------------------|
| Central Regional Office | 509-575-2490 |
| Department of Health, | 1-800-521-0323 (business hours) |
| Drinking Water Program | 1-877-481-4901 (after business hours) |
| Chelan Douglas Health | 509-886-6400 (M-F, 8-5) |
| District | 509-886-6499 (after business hours) |

2. Twenty-four-hour Reporting

The Permittee must report the following occurrences of noncompliance by telephone, to Ecology at the telephone numbers listed above, within 24 hours from the time the Permittee becomes aware of any of the following circumstances:

- a. Any noncompliance that may endanger health or the environment, unless previously reported under subpart 1, above.
- b. Any unanticipated **bypass** that exceeds any effluent limitation in the permit (See Part S4.B., "Bypass Procedures").
- c. Any **upset** that exceeds any effluent limitation in the permit (See G.15, "Upset").
- d. Any violation of a maximum daily or instantaneous maximum discharge limitation for any of the pollutants in Section S1.A of this permit.
- e. Any overflow prior to the treatment works, whether or not such overflow endangers health or the environment or exceeds any effluent limitation in the permit.

3. Report Within Five Days

The Permittee must also provide a written submission within five days of the time that the Permittee becomes aware of any event required to be reported under subparts 1 or 2, above. The written submission must contain:

- a. A description of the noncompliance and its cause.
- b. The period of noncompliance, including exact dates and times.
- c. The estimated time noncompliance is expected to continue if it has not been corrected.
- d. Steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- e. If the noncompliance involves an overflow prior to the treatment works, an estimate of the quantity (in gallons) of untreated overflow.

4. Waiver of Written Reports

Ecology may waive the written report required in subpart 3, above, on a case-by-case basis upon request if a timely oral report has been received.

5. All Other Permit Violation Reporting

The Permittee must report all permit violations, which do not require immediate or within 24 hours reporting, when it submits monitoring reports for S3.A ("Reporting"). The reports must contain the information listed in paragraph E.3, above. Compliance with these requirements does not relieve the Permittee from responsibility to maintain continuous compliance with the terms and conditions of this permit or the resulting liability for failure to comply.

6. Report Submittal

The Permittee must submit reports to the address listed in S3.

F. Other Reporting

The Permittee must report a spill of oil or hazardous materials in accordance with the requirements of RCW 90.56.280 and WAC 173-303-145. You can obtain further instructions at the following website:

<http://www.ecy.wa.gov/programs/spills/other/reportaspill.htm> .

Where the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to Ecology, it must submit such facts or information promptly.

G. Maintaining a Copy of This Permit

The Permittee must keep a copy of this permit at the facility and make it available upon request to Ecology inspectors.

S4. FACILITY LOADING

A. Design Criteria

The flows or waste loads for the permitted facility must not exceed the following design criteria:

Flows or waste loadings of the following design criteria for the permitted treatment facility shall not be exceeded.

City of Cashmere POTW Maximum Flow Design Criteria

| Parameter | Flow Rate |
|----------------------|-----------|
| BVF Maximum Month | 0.440 MGD |
| BVF Maximum Daily | 0.533 MGD |
| Municipal Max. Month | 0.573 MGD |
| Combined Max. Month | 1.013 MGD |

City of Cashmere POTW Influent Loadings Design Criteria

| Parameter | Flow Rate |
|--|----------------|
| BOD to BVF | 24,500 lbs/day |
| TSS to BVF | 9,500 lbs/day |
| Municipal BOD to Lagoon | 5,000 lbs/day |
| Industrial (BVF effluent) BOD to Lagoon | 6,200 lbs/day |
| Combined BOD to Lagoon | 11,200 lbs/day |

B. Plans for Maintaining Adequate Capacity

The Permittee must submit a plan and a schedule for continuing to maintain capacity to Ecology when:

1. The actual flow or waste load reaches 85 percent of any one of the design criteria in S4.A for three consecutive months.
2. The projected increase would reach design capacity within five years.

The plan and schedule for continuing to maintain capacity must be sufficient to achieve the effluent limits and other conditions of this permit. This plan must identify any of the following actions or any other actions necessary to meet the objective of maintaining capacity.

- a. Analysis of the present design, including the introduction of any process modifications that would establish the ability of the existing facility to achieve the effluent limits and other requirements of this permit at specific levels in excess of the existing design criteria specified in paragraph A, above.
- b. Reduction or elimination of excessive infiltration and inflow of uncontaminated ground and surface water into the sewer system.
- c. Limitation on future sewer extensions or connections or additional waste loads.
- d. Modification or expansion of facilities necessary to accommodate increased flow or waste load.
- e. Reduction of industrial or commercial flows or waste loads to allow for increasing sanitary flow or waste load.

Engineering documents associated with the plan must meet the requirements of WAC 173-240-060, "Engineering Report," and be approved by Ecology prior to any construction.

If the Permittee intends to apply for state or federal funding for the design or construction of a facility project, the plan may also need to meet the environmental review requirements as described in 40 CFR 35.3040 and 40 CFR 35.3045 and it may also need to demonstrate cost effectiveness as required by WAC 173-95-730. The plan must specify any contracts, ordinances, methods for financing, or other arrangements necessary to achieve this objective.

C. Duty to Mitigate

The Permittee must take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

D. Notification of New or Altered Sources

1. The Permittee must submit written notice to Ecology whenever any new discharge or a substantial change in volume or character of an existing discharge into the POTW is proposed which:

- a. Would interfere with the operation of, or exceed the design capacity of, any portion of the POTW;
 - b. Is not part of an approved general sewer plan or approved plans and specifications; or
 - c. Would be subject to pretreatment standards under 40 CFR Part 403 and Section 307(b) of the Clean Water Act.
2. This notice must include an evaluation of the POTW's ability to adequately transport and treat the added flow and/or waste load, the quality and volume of effluent to be discharged to the POTW, and the anticipated impact on the Permittee's effluent [40 CFR 122.42(b)].

E. Infiltration and Inflow Evaluation

1. The Permittee must conduct an infiltration and inflow evaluation. Refer to the U.S. EPA publication, *I/I Analysis and Project Certification*, available as Publication No. 97-03 at:

Publications Office
Department of Ecology
P.O. Box 47600
Olympia, WA, 98504-7600

or at

<http://www.ecy.wa.gov/programs/wq/permits/guidance.html> .

The Permittee may use plant monitoring records to assess measurable infiltration and inflow.

2. The Permittee must prepare a report which summarizes any measurable infiltration and inflow. If infiltration and inflow have increased by more than 15 percent from that found in the previous report based on equivalent rainfall, the report must contain a plan and a schedule for:
 - a. Locating the sources of infiltration and inflow; and
 - b. Correcting the problem.
3. The Permittee must submit a report summarizing the results of the evaluation and any recommendations for corrective actions **by November 30, 2014**.

F. Wasteload Assessment

1. The Permittee must conduct an assessment of its **influent flow and waste load and submit a report to Ecology by November 30, 2014.**
2. The report must contain the following: an indication of compliance or noncompliance with the permit effluent limits; a comparison between the existing and design monthly average dry weather and wet weather flows, peak flows, BOD, and total suspended solids loadings; and (except for the first report) the percentage change in these parameters since the previous report.
3. The report must also state the present and design population or population equivalent, projected population growth rate, and the estimated date upon which the design capacity is projected to be reached, according to the most restrictive of the parameters above.
4. Ecology may modify the interval for review and reporting if it determines that a different frequency is sufficient.

S5. OPERATION AND MAINTENANCE

The Permittee must at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance also includes keeping a daily operation logbook (paper or electronic), adequate laboratory controls, and appropriate quality assurance procedures. This provision of the permit requires the Permittee to operate backup or auxiliary facilities or similar systems only when the operation is necessary to achieve compliance with the conditions of this permit.

A. Certified Operator

An operator certified for at least a Class II plant by the State of Washington shall be in responsible charge of the day-to-day operation of the wastewater treatment facility (WWTF). An operator certified for at least a Class I plant shall be in charge during all regularly scheduled shifts.

B. O & M Program

The Permittee must:

1. Institute an adequate operation and maintenance program for the entire sewage system.

2. Keep maintenance records on all major electrical and mechanical components of the treatment plant, as well as the sewage system and pumping stations. Such records must clearly specify the frequency and type of maintenance recommended by the manufacturer and must show the frequency and type of maintenance performed.
3. Make maintenance records available for inspection at all times.

C. Short-term Reduction

The Permittee must schedule any facility maintenance, which might require interruption of wastewater treatment and degrade effluent quality, during non-critical water quality periods and carry this maintenance out in a manner approved by Ecology.

If a Permittee contemplates a reduction in the level of treatment that would cause a violation of permit discharge limits on a short-term basis for any reason, and such reduction cannot be avoided, the Permittee must:

1. Give written notification to Ecology, if possible, thirty (30) days prior to such activities.
2. Detail the reasons for, length of time of, and the potential effects of the reduced level of treatment.

This notification does not relieve the Permittee of its obligations under this permit.

D. Electrical Power Failure

The Permittee must ensure that adequate safeguards prevent the discharge of untreated wastes or wastes not treated in accordance with the requirements of this permit during electrical power failure at the treatment plant and/or sewage lift stations. Adequate safeguards include, but are not limited to: alternate power sources, standby generator(s), or retention of inadequately treated wastes.

The Permittee is responsible for maintaining adequate safeguards to prevent the discharge of untreated wastes or wastes not treated in accordance with the requirements of this permit during electrical power failure at the treatment plant and/or sewage lift stations either by means of alternate power sources, standby generator, or retention of inadequately treated wastes. The Permittee shall maintain Reliability Class II (EPA 430-99-74-001) at the wastewater treatment facility, which requires primary sedimentation and disinfection.

E. Prevent Connection of Inflow

The Permittee must strictly enforce its sewer ordinances and not allow the connection of inflow (roof drains, foundation drains, etc.) to the sanitary sewer system.

F. Bypass Procedures

This permit prohibits a bypass which is the intentional diversion of waste streams from any portion of a treatment facility. Ecology may take enforcement action against a Permittee for a bypass unless one of the following circumstances (1, 2, or 3) applies.

1. Bypass for Essential Maintenance without the Potential to Cause Violation of Permit Limits or Conditions.

Bypass is authorized if it is for essential maintenance and does not have the potential to cause violations of limits or other conditions of this permit, or adversely impact public health as determined by Ecology prior to the bypass. The Permittee must submit prior notice, if possible, at least ten (10) days before the date of the bypass.

2. Bypass which is Unavoidable, Unanticipated, and Results in Noncompliance of this Permit.

This bypass is permitted only if:

- a. Bypass is unavoidable to prevent loss of life, personal injury, or severe property damage. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass.
- b. No feasible alternatives to the bypass exist, such as:
 - The use of auxiliary treatment facilities.
 - Retention of untreated wastes.
 - Stopping production.
 - Maintenance during normal periods of equipment downtime, but not if the Permittee should have installed adequate backup equipment in the exercise of reasonable engineering judgment to prevent a bypass.
 - Transport of untreated wastes to another treatment facility or preventative maintenance), or transport of untreated wastes to another treatment facility.

- c. Ecology is properly notified of the bypass as required in condition S3E of this permit.
3. If bypass is anticipated and has the potential to result in noncompliance of this permit.
 - a. The Permittee must notify Ecology at least thirty (30) days before the planned date of bypass. The notice must contain:
 - A description of the bypass and its cause.
 - An analysis of all known alternatives which would eliminate, reduce, or mitigate the need for bypassing.
 - A cost-effectiveness analysis of alternatives including comparative resource damage assessment.
 - The minimum and maximum duration of bypass under each alternative.
 - A recommendation as to the preferred alternative for conducting the bypass.
 - The projected date of bypass initiation.
 - A statement of compliance with SEPA.
 - A request for modification of water quality standards as provided for in WAC 173-201A-410, if an exceedance of any water quality standard is anticipated.
 - Details of the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass.
 - b. For probable construction bypasses, the Permittee must notify Ecology of the need to bypass as early in the planning process as possible. The Permittee must consider the analysis required above during preparation of the engineering report or facilities plan and plans and specifications and must include these to the extent practical. In cases where the Permittee determines the probable need to bypass early, the Permittee must continue to analyze conditions up to and including the construction period in an effort to minimize or eliminate the bypass.
 - c. Ecology will consider the following prior to issuing an administrative order for this type of bypass:
 - If the bypass is necessary to perform construction or maintenance-related activities essential to meet the requirements of this permit.
 - If feasible alternatives to bypass exist, such as the use of auxiliary treatment facilities, retention of untreated wastes, stopping production, maintenance during normal periods of equipment down time, or transport of untreated wastes to another treatment facility.

- If the Permittee planned and scheduled the bypass to minimize adverse effects on the public and the environment.

After consideration of the above and the adverse effects of the proposed bypass and any other relevant factors, Ecology will approve or deny the request. Ecology will give the public an opportunity to comment on bypass incidents of significant duration, to the extent feasible. Ecology will approve a request to bypass by issuing an administrative order under RCW 90.48.120.

G. Operations and Maintenance Manual

The Permittee must:

1. Review the O&M Manual at least annually.
2. Submit to Ecology for review and approval substantial changes or updates to the O&M Manual whenever it incorporates them into the manual.
3. Keep the approved O&M Manual at the permitted facility.
4. Follow the instructions and procedures of this manual.

In addition to the requirements of WAC 173-240-080 (1) through (5), the O&M Manual must include:

1. Emergency procedures for cleanup in the event of wastewater system upset or failure.
2. Wastewater system maintenance procedures that contribute to the generation of process wastewater.
3. Any directions to maintenance staff when cleaning or maintaining other equipment or performing other tasks which are necessary to protect the operation of the wastewater system (for example, defining maximum allowable discharge rate for draining a tank, blocking all floor drains before beginning the overhaul of a stationary engine).
4. The treatment plant process control monitoring schedule.
5. Minimum staffing adequate to operate and maintain the treatment processes and carry out compliance monitoring required by the permit.

S6. PRETREATMENT

A. General Requirements

The Permittee must work with Ecology to ensure that all commercial and industrial users of the publicly owned treatment works (POTW) comply with the pretreatment regulations in 40 CFR Part 403 and any additional regulations that the Environmental

Protection Agency (U.S. EPA) may promulgate under Section 307(b) (pretreatment) and 308 (reporting) of the Federal Clean Water Act.

B. Duty to Enforce Discharge Prohibitions

1. Under 40 CFR 403.5(a), the Permittee must not authorize or knowingly allow the discharge of any pollutants into its POTW which may be reasonably expected to cause pass through or interference, or which otherwise violate general or specific discharge prohibitions contained in 40 CFR Part 403.5 or WAC-173-216-060.
2. The Permittee must not authorize or knowingly allow the introduction of any of the following into their treatment works:
 - a. Pollutants which create a fire or explosion hazard in the POTW (including, but not limited to waste streams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21).
 - b. Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0, or greater than 11.0 standard units, unless the works are specifically designed to accommodate such discharges.
 - c. Solid or viscous pollutants in amounts that could cause obstruction to the flow in sewers or otherwise interfere with the operation of the POTW.
 - d. Any pollutant, including oxygen demanding pollutants, (BOD, etc.) released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the POTW.
 - e. Petroleum oil, non-biodegradable cutting oil, or products of mineral origin in amounts that will cause interference or pass through.
 - f. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity which may cause acute worker health and safety problems.
 - g. Heat in amounts that will inhibit biological activity in the POTW resulting in interference but in no case heat in such quantities such that the temperature at the POTW headworks exceeds 40 degrees Centigrade (104 degrees Fahrenheit) unless Ecology, upon request of the Permittee, approves, in writing, alternate temperature limits.
 - h. Any trucked or hauled pollutants, except at discharge points designated by the Permittee.
 - i. Wastewaters prohibited to be discharged to the POTW by the Dangerous Waste Regulations (chapter 173-303 WAC), unless authorized under the Domestic Sewage Exclusion (WAC 173-303-071).
3. The Permittee must also not allow the following discharges to the POTW unless approved in writing by Ecology:

- a. Noncontact cooling water in significant volumes.
 - b. Stormwater and other direct inflow sources.
 - c. Wastewaters significantly affecting system hydraulic loading, which do not require treatment, or would not be afforded a significant degree of treatment by the system.
4. The Permittee must notify Ecology if any industrial user violates the prohibitions listed in this section (S6.B), and initiate enforcement action to promptly curtail any such discharge.

C. Wastewater Discharge Permit Required

The Permittee must require all non-domestic discharges to apply for a permit, and may not allow any significant industrial users (SIUs) to discharge wastewater to the Permittee's sewer system until such user has received a wastewater discharge permit from Ecology in accordance with chapter 90.48 RCW and chapter 173-216 WAC.

D. Identification and Reporting of Existing, New, and Proposed Industrial Users

1. The Permittee must take continuous, routine measures to identify all existing, new, and proposed SIUs and potential significant industrial users (PSIUs) discharging or proposing to discharge to the Permittee's sewer system (see Appendix B of the Fact Sheet for definitions).
2. Within 30 days of becoming aware of an unpermitted existing, new, or proposed industrial user who may be an SIU, the Permittee must notify such user by registered mail that, if classified as an SIU, they must apply to Ecology and obtain a State Waste Discharge Permit. The Permittee must send a copy of this notification letter to Ecology within this same 30-day period.
3. The Permittee must also notify all Potential SIUs (PSIUs), as they are identified, that if their classification should change to an SIU, they must apply to Ecology for a State Waste Discharge Permit within 30 days of such change.

S7. SOLID WASTES

A. Solid Waste Handling

The Permittee must handle and dispose of all solid waste material in such a manner as to prevent its entry into state ground or surface water.

The final use and disposal of biosolids shall be done in accordance with Chapter 173-308 WAC ("Biosolids Management"), 40 CFR Part 503, and under coverage of the State general permit for biosolids management, as applicable.

B. Leachate

The Permittee must not allow leachate from its solid waste material to enter state waters without providing all known, available and reasonable methods of treatment, nor allow such leachate to cause violations of the State Surface Water Quality Standards, Chapter 173-201A WAC, or the State Ground Water Quality Standards, Chapter 173-200 WAC. The Permittee must apply for a permit or permit modification as may be required for such discharges to state ground or surface waters.

S8. APPLICATION FOR PERMIT RENEWAL

The Permittee must submit an application for renewal of this permit by **November 30, 2014**.

S9. ENGINEERING DOCUMENTS FOR THE PLANNED UPGRADE

The Permittee is required to submit to Ecology for approval engineering documents to support the funding and construction of the planned upgrade to its wastewater treatment facility .

A. Engineering Report

The Permittee must submit to Ecology an approvable Engineering Report for the planned upgrade of the wastewater treatment facility **no later than July 31, 2012**. The report must meet the requirements of Chapter 173-240 Washington Administrative Code (WAC) *Submission of Plans and Reports for Construction of Wastewater Facilities*.

WAC 173-240-060(2) states: "The engineering report shall be sufficiently complete so that plans and specifications can be developed from it without substantial changes."

B. Plans and Specifications

The Permittee must submit to Ecology for approval two copies of the Plans and Specifications for the construction of the planned upgrade **no later than April 30, 2013**.

Prior to the start of construction, the Permittee must submit to Ecology a quality assurance plan as required by Chapter 173-240 WAC.

S10. NOTICE OF UPGRADE COMPLETION

The Permittee must submit to Ecology written notification that construction of the upgraded wastewater treatment facility is complete **no later than August 25, 2019**.

GENERAL CONDITIONS

G1. SIGNATORY REQUIREMENTS

- A. All applications, reports, or information submitted to Ecology must be signed and certified.

1. In the case of corporations, by a responsible corporate officer.

For the purpose of this section, a responsible corporate officer means:

- (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation, or
 - (ii) The manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
2. In the case of a partnership, by a general partner.
 3. In the case of sole proprietorship, by the proprietor.
 4. In the case of a municipal, state, or other public facility, by either a principal executive officer or ranking elected official.

Applications for permits for domestic wastewater facilities that are either owned or operated by, or under contract to, a public entity shall be submitted by the public entity.

- B. All reports required by this permit and other information requested by Ecology must be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
1. The authorization is made in writing by a person described above and submitted to Ecology.

2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
- C. Changes to authorization. If an authorization under paragraph B.2, above, is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph B.2, above, must be submitted to Ecology prior to or together with any reports, information, or applications to be signed by an authorized representative.
- D. Certification. Any person signing a document under this section must make the following certification:

“I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

G2. RIGHT OF INSPECTION AND ENTRY

The Permittee must allow an authorized representative of Ecology, upon the presentation of credentials and such other documents as may be required by law:

- A. To enter upon the premises where a discharge is located or where any records must be kept under the terms and conditions of this permit.
- B. To have access to and copy, at reasonable times and at reasonable cost, any records required to be kept under the terms and conditions of this permit.
- C. To inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, methods, or operations regulated or required under this permit.

- D. To sample or monitor, at reasonable times, any substances or parameters at any location for purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act.

G3. PERMIT ACTIONS

This permit may be modified, revoked and reissued, or terminated either at the request of any interested person (including the Permittee) or upon Ecology's initiative. However, the permit may only be modified, revoked and reissued, or terminated for the reasons specified in 40 CFR 122.62, 40 CFR 122.64 or WAC 173-220-150 according to the procedures of 40 CFR 124.5.

- A. The following are causes for terminating this permit during its term, or for denying a permit renewal application:
1. Violation of any permit term or condition.
 2. Obtaining a permit by misrepresentation or failure to disclose all relevant facts.
 3. A material change in quantity or type of waste disposal.
 4. A determination that the permitted activity endangers human health or the environment, or contributes to water quality standards violations and can only be regulated to acceptable levels by permit modification or termination.
 5. A change in any condition that requires either a temporary or permanent reduction, or elimination of any discharge or sludge use or disposal practice controlled by the permit.
 6. Nonpayment of fees assessed pursuant to RCW 90.48.465.
 7. Failure or refusal of the Permittee to allow entry as required in RCW 90.48.090.
- B. The following are causes for modification but not revocation and reissuance except when the Permittee requests or agrees:
1. A material change in the condition of the waters of the state.
 2. New information not available at the time of permit issuance that would have justified the application of different permit conditions.
 3. Material and substantial alterations or additions to the permitted facility or activities which occurred after this permit issuance.
 4. Promulgation of new or amended standards or regulations having a direct bearing upon permit conditions, or requiring permit revision.
 5. The Permittee has requested a modification based on other rationale meeting the criteria of 40 CFR Part 122.62.
 6. Ecology has determined that good cause exists for modification of a compliance schedule, and the modification will not violate statutory deadlines.
 7. Incorporation of an approved local pretreatment program into a municipality's permit.

C. The following are causes for modification or alternatively revocation and reissuance:

1. When cause exists for termination for reasons listed in A1 through A7 of this section, and Ecology determines that modification or revocation and reissuance is appropriate.
2. When Ecology has received notification of a proposed transfer of the permit. A permit may also be modified to reflect a transfer after the effective date of an automatic transfer (General Condition G8) but will not be revoked and reissued after the effective date of the transfer except upon the request of the new Permittee.

G4. REPORTING PLANNED CHANGES

The Permittee must, as soon as possible, but no later than sixty (60) days prior to the proposed changes, give notice to Ecology of planned physical alterations or additions to the permitted facility, production increases, or process modification which will result in:
1) the permitted facility being determined to be a new source pursuant to 40 CFR 122.29(b);
2) a significant change in the nature or an increase in quantity of pollutants discharged; or
3) a significant change in the Permittee's sludge use or disposal practices. Following such notice, and the submittal of a new application or supplement to the existing application, along with required engineering plans and reports, this permit may be modified, or revoked and reissued pursuant to 40 CFR 122.62(a) to specify and limit any pollutants not previously limited. Until such modification is effective, any new or increased discharge in excess of permit limits or not specifically authorized by this permit constitutes a violation.

G5. PLAN REVIEW REQUIRED

Prior to constructing or modifying any wastewater control facilities, an engineering report and detailed plans and specifications must be submitted to Ecology for approval in accordance with chapter 173-240 WAC. Engineering reports, plans, and specifications must be submitted at least one hundred eighty (180) days prior to the planned start of construction unless a shorter time is approved by Ecology. Facilities must be constructed and operated in accordance with the approved plans.

G6. COMPLIANCE WITH OTHER LAWS AND STATUTES

Nothing in this permit must be construed as excusing the Permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations.

G7. TRANSFER OF THIS PERMIT

In the event of any change in control or ownership of facilities from which the authorized discharge emanate, the Permittee must notify the succeeding owner or controller of the existence of this permit by letter, a copy of which must be forwarded to Ecology.

A. Transfers by Modification

Except as provided in paragraph (B) below, this permit may be transferred by the Permittee to a new owner or operator only if this permit has been modified or revoked and reissued under 40 CFR 122.62(b)(2), or a minor modification made under 40 CFR 122.63(d), to identify the new Permittee and incorporate such other requirements as may be necessary under the Clean Water Act.

B. Automatic Transfers

This permit may be automatically transferred to a new Permittee if:

1. The Permittee notifies Ecology at least thirty (30) days in advance of the proposed transfer date.
2. The notice includes a written agreement between the existing and new Permittees containing a specific date transfer of permit responsibility, coverage, and liability between them.
3. Ecology does not notify the existing Permittee and the proposed new Permittee of its intent to modify or revoke and reissue this permit. A modification under this subparagraph may also be minor modification under 40 CFR 122.63. If this notice is not received, the transfer is effective on the date specified in the written agreement.

G8. REDUCED PRODUCTION FOR COMPLIANCE

The Permittee, in order to maintain compliance with its permit, must control production and/or all discharges upon reduction, loss, failure, or bypass of the treatment facility until the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost, or fails.

G9. REMOVED SUBSTANCES

Collected screenings, grit, solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters must not be resuspended or reintroduced to the final effluent stream for discharge to state waters.

G10. DUTY TO PROVIDE INFORMATION

The Permittee must submit to Ecology, within a reasonable time, all information which Ecology may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The

Permittee must also submit to Ecology upon request, copies of records required to be kept by this permit.

G11. OTHER REQUIREMENTS OF 40 CFR

All other requirements of 40 CFR 122.41 and 122.42 are incorporated in this permit by reference.

G12. ADDITIONAL MONITORING

Ecology may establish specific monitoring requirements in addition to those contained in this permit by administrative order or permit modification.

G13. PAYMENT OF FEES

The Permittee must submit payment of fees associated with this permit as assessed by Ecology.

G14. PENALTIES FOR VIOLATING PERMIT CONDITIONS

Any person who is found guilty of willfully violating the terms and conditions of this permit is deemed guilty of a crime, and upon conviction thereof must be punished by a fine of up to ten thousand dollars (\$10,000) and costs of prosecution, or by imprisonment in the discretion of the court. Each day upon which a willful violation occurs may be deemed a separate and additional violation.

Any person who violates the terms and conditions of a waste discharge permit will incur, in addition to any other penalty as provided by law, a civil penalty in the amount of up to ten thousand dollars (\$10,000) for every such violation. Each and every such violation is a separate and distinct offense, and in case of a continuing violation, every day's continuance is deemed to be a separate and distinct violation.

G15. UPSET

Definition – “Upset” means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limits because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limits if the requirements of the following paragraph are met.

A Permittee who wishes to establish the affirmative defense of upset must demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an upset occurred and that the Permittee can identify the cause(s) of the upset; 2) the permitted facility was being properly operated at the time of the upset; 3) the Permittee submitted notice of the upset as required in Condition S3.E; and 4) the Permittee complied with any remedial measures required under S4.C of this permit.

In any enforcement action the Permittee seeking to establish the occurrence of an upset has the burden of proof.

G16. PROPERTY RIGHTS

This permit does not convey any property rights of any sort, or any exclusive privilege.

G17. DUTY TO COMPLY

The Permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

G18. TOXIC POLLUTANTS

The Permittee must comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if this permit has not yet been modified to incorporate the requirement.

G19. PENALTIES FOR TAMPERING

The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit must, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than two (2) years per violation, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this condition, punishment must be a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than four (4) years, or by both.

G20. COMPLIANCE SCHEDULES

Reports of compliance or noncompliance with, or any progress reports on, interim and

final requirements contained in any compliance schedule of this permit must be submitted no later than fourteen (14) days following each schedule date.

G21. CONTRACT REVIEW

The Permittee must submit to Ecology any proposed contract for the operation of any wastewater treatment facility covered by this permit. The review is to ensure consistency with chapters 90.46 and 90.48 RCW. In the event that Ecology does not comment within a thirty (30)-day period, the Permittee may assume consistency and proceed with the contract.

APPENDIX A

EFFLUENT CHARACTERIZATION FOR POLLUTANTS THIS LIST INCLUDES EPA REQUIRED POLLUTANTS (PRIORITY POLLUTANTS) AND SOME ECOLOGY PRIORITY TOXIC CHEMICALS (PBTs)

The following table specifies analytical methods and levels to be used for effluent characterization in NPDES and State waste discharge permits. This appendix specifies effluent characterization requirements of the Department of Ecology unless other methods are specified in the body of this permit.

This permit specifies the compounds and groups of compounds to be analyzed. Ecology may require additional pollutants to be analyzed within a group. The objective of this appendix is to reduce the number of analytical “non-detects” in permit-required monitoring and to measure effluent concentrations near or below criteria values where possible at a reasonable cost. If a Permittee knows that an alternate, less sensitive method (higher DL and QL) from 40 CFR Part 136 is sufficient to produce measurable results in their effluent, that method may be used for analysis.

| Pollutant & CAS No. (if available) | Recommended Analytical Protocol | Detection (DL) ¹ µg/L unless specified | Quantitation Level (QL) ² µg/L unless specified |
|------------------------------------|--|--|---|
| CONVENTIONALS | | | |
| Biochemical Oxygen Demand | SM5210-B | | 2 mg/L |
| Chemical Oxygen Demand | SM5220-D | | 10 mg/L |
| Total Organic Carbon | SM5310-B/C/D | | 1 mg/L |
| Total Suspended Solids | SM2540-D | | 5 mg/L |
| Total Ammonia (as N) | SM4500-NH3- GH | | 0.3 mg/L |
| Flow | Calibrated device | | |
| Dissolved oxygen | 4500-OC/OG | | 0.2 mg/L |
| Temperature (max. 7-day avg.) | Analog recorder or Use micro-recording devices known as thermistors | | 0.2° C |
| pH | SM4500-H ⁺ B | N/A | N/A |
| NONCONVENTIONALS | | | |
| Total Alkalinity | SM2320-B | | 5 mg/L as CaCo3 |
| Chlorine, Total Residual | 4500 Cl G | | 50.0 |
| Color | SM2120 B/C/E | | 10 color unit |
| Fecal Coliform | SM 9221D/E,9222 | N/A | N/A |
| Fluoride (16984-48-8) | SM4500-F E | 25 | 100 |
| Nitrate-Nitrite (as N) | 4500-NO3- E/F/H | | 100 |

| Pollutant & CAS No. (if available) | Recommended Analytical Protocol | Detection (DL)¹ µg/L unless specified | Quantitation Level (QL)² µg/L unless specified |
|---|--|---|--|
| Nitrogen, Total Kjeldahl (as N) | 4500-NH3-C/E/FG | | 300 |
| Ortho-Phosphate (PO ₄ as P) | 4500- PE/PF | 3 | 10 |
| Phosphorus, Total (as P) | 4500-PE/PF | 3 | 10 |
| Oil and Grease (HEM) | 1664A | 1,400 | 5,000 |
| Salinity | SM2520-B | | 3 PSS |
| Settleable Solids | SM2540 -F | | 100 |
| Sulfate (as mg/L SO ₄) | SM4110-B | | 200 |
| Sulfide (as mg/L S) | 4500-S ² F/D/E/G | | 200 |
| Sulfite (as mg/L SO ₃) | SM4500-SO3B | | 2000 |
| Total dissolved solids | SM2540 C | | 20 mg/L |
| Total Hardness | 2340B | | 200 as CaCO ₃ |
| Aluminum, Total (7429-90-5) | 200.8 | 2.0 | 10 |
| Barium Total (7440-39-3) | 200.8 | 0.5 | 2.0 |
| Boron Total (7440-42-8) | 200.8 | 2.0 | 10.0 |
| Cobalt, Total (7440-48-4) | 200.8 | 0.05 | 0.25 |
| Iron, Total (7439-89-6) | 200.7 | 12.5 | 50 |
| Magnesium, Total (7439-95-4) | 200.7 | 10 | 50 |
| Molybdenum, Total (7439-98-7) | 200.8 | 0.1 | 0.5 |
| Manganese, Total (7439-96-5) | 200.8 | 0.1 | 0.5 |
| Tin, Total (7440-31-5) | 200.8 | 0.3 | 1.5 |
| METALS, CYANIDE & TOTAL PHENOLS | | | |
| Antimony, Total (7440-36-0) | 200.8 | 0.3 | 1.0 |
| Arsenic, Total (7440-38-2) | 200.8 | 0.1 | 0.5 |
| Beryllium, Total (7440-41-7) | 200.8 | 0.1 | 0.5 |
| Cadmium, Total (7440-43-9) | 200.8 | 0.05 | 0.25 |
| Chromium (hex) dissolved (18540-29-9) | SM3500-Cr EC | 0.3 | 1.2 |
| Chromium, Total (7440-47-3) | 200.8 | 0.2 | 1.0 |
| Copper, Total (7440-50-8) | 200.8 | 0.4 | 2.0 |
| Lead, Total (7439-92-1) | 200.8 | 0.1 | 0.5 |
| Mercury, Total (7439-97-6) | 1631E | 0.0002 | 0.0005 |
| Nickel, Total (7440-02-0) | 200.8 | 0.1 | 0.5 |
| Selenium, Total (7782-49-2) | 200.8 | 1.0 | 1.0 |
| Silver, Total (7440-22-4) | 200.8 | 0.04 | 0.2 |
| Thallium, Total (7440-28-0) | 200.8 | 0.09 | 0.36 |
| Zinc, Total (7440-66-6) | 200.8 | 0.5 | 2.5 |
| Cyanide, Total (57-12-5) | 335.4 | 2 | 10 |
| Cyanide, Weak Acid Dissociable | SM4500-CN I | 2 | 10 |
| Phenols, Total | EPA 420.1 | | 50 |
| DIOXIN | | | |
| 2,3,7,8-Tetra-Chlorodibenzo-P-Dioxin | 1613B | 1.3 pg/L | 5 pg/L |

| Pollutant & CAS No. (if available) | Recommended Analytical Protocol | Detection (DL) ¹ µg/L unless specified | Quantitation Level (QL) ² µg/L unless specified |
|---|---------------------------------|--|---|
| (176-40-16) | | | |
| VOLATILE COMPOUNDS | | | |
| Acrolein (107-02-8) | 624 | 5 | 10 |
| Acrylonitrile (107-13-1) | 624 | 1.0 | 2.0 |
| Benzene (71-43-2) | 624 | 1.0 | 2.0 |
| Bromoform (75-25-2) | 624 | 1.0 | 2.0 |
| Carbon tetrachloride (56-23-5) | 624/601 or SM6230B | 1.0 | 2.0 |
| Chlorobenzene (108-90-7) | 624 | 1.0 | 2.0 |
| Chloroethane (75-00-3) | 624/601 | 1.0 | 2.0 |
| 2-Chloroethylvinyl Ether (110-75-8) | 624 | 1.0 | 2.0 |
| Chloroform (67-66-3) | 624 or SM6210B | 1.0 | 2.0 |
| Dibromochloromethane (124-48-1) | 624 | 1.0 | 2.0 |
| 1,2-Dichlorobenzene (95-50-1) | 624 | 1.9 | 7.6 |
| 1,3-Dichlorobenzene (541-73-1) | 624 | 1.9 | 7.6 |
| 1,4-Dichlorobenzene (106-46-7) | 624 | 4.4 | 17.6 |
| Dichlorobromomethane (75-27-4) | 624 | 1.0 | 2.0 |
| 1,1-Dichloroethane (75-34-3) | 624 | 1.0 | 2.0 |
| 1,2-Dichloroethane (107-06-2) | 624 | 1.0 | 2.0 |
| 1,1-Dichloroethylene (75-35-4) | 624 | 1.0 | 2.0 |
| 1,2-Dichloropropane (78-87-5) | 624 | 1.0 | 2.0 |
| 1,3-dichloropropylene (mixed isomers) (542-75-6) | 624 | 1.0 | 2.0 |
| Ethylbenzene (100-41-4) | 624 | 1.0 | 2.0 |
| Methyl bromide (74-83-9) (Bromomethane) | 624/601 | 5.0 | 10.0 |
| Methyl chloride (74-87-3) (Chloromethane) | 624 | 1.0 | 2.0 |
| Methylene chloride (75-09-2) | 624 | 5.0 | 10.0 |
| 1,1,2,2-Tetrachloroethane (79-34-5) | 624 | 1.9 | 2.0 |
| Tetrachloroethylene (127-18-4) | 624 | 1.0 | 2.0 |
| Toulene (108-88-3) | 624 | 1.0 | 2.0 |
| 1,2-Trans-Dichloroethylene (156-60-5) (Ethylene dichloride) | 624 | 1.0 | 2.0 |
| 1,1,1-Trichloroethane (71-55-6) | 624 | 1.0 | 2.0 |
| 1,1,2-Trichloroethane (79-00-5) | 624 | 1.0 | 2.0 |
| Trichloroethylene (79-01-6) | 624 | 1.0 | 2.0 |
| Vinyl chloride (75-01-4) | 624/SM6200B | 1.0 | 2.0 |
| ACID COMPOUNDS | | | |
| 2-Chlorophenol (95-57-8) | 625 | 1.0 | 2.0 |
| 2,4-Dichlorophenol (120-83-2) | 625 | 0.5 | 1.0 |
| 2,4-Dimethylphenol (105-67-9) | 625 | 0.5 | 1.0 |
| 4,6-dinitro-o-cresol (534-52-1) (2-methyl-4,6,-dinitrophenol) | 625/1625B | 1.0 | 2.0 |

| Pollutant & CAS No. (if available) | Recommended Analytical Protocol | Detection (DL) ¹ µg/L unless specified | Quantitation Level (QL) ² µg/L unless specified |
|--|---------------------------------|--|---|
| 2,4 dinitrophenol (51-28-5) | 625 | 1.0 | 2.0 |
| 2-Nitrophenol (88-75-5) | 625 | 0.5 | 1.0 |
| 4-nitrophenol (100-02-7) | 625 | 0.5 | 1.0 |
| Parachlorometa cresol (59-50-7) (4-chloro-3-methylphenol) | 625 | 1.0 | 2.0 |
| Pentachlorophenol (87-86-5) | 625 | 0.5 | 1.0 |
| Phenol (108-95-2) | 625 | 2.0 | 4.0 |
| 2,4,6-Trichlorophenol (88-06-2) | 625 | 2.0 | 4.0 |
| BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs) | | | |
| Acenaphthene (83-32-9) | 625 | 0.2 | 0.4 |
| Acenaphthylene (208-96-8) | 625 | 0.3 | 0.6 |
| Anthracene (120-12-7) | 625 | 0.3 | 0.6 |
| Benzidine (92-87-5) | 625 | 12 | 24 |
| Benzyl butyl phthalate (85-68-7) | 625 | 0.3 | 0.6 |
| Benzo(a)anthracene (56-55-3) | 625 | 0.3 | 0.6 |
| Benzo(j)fluoranthene (205-82-3) | 625 | 0.5 | 1.0 |
| Benzo(r,s,t)pentaphene (189-55-9) | 625 | 0.5 | 1.0 |
| Benzo(a)pyrene (50-32-8) | 610/625 | 0.5 | 1.0 |
| 3,4-benzofluoranthene (Benzo(b)fluoranthene) (205-99-2) | 610/625 | 0.8 | 1.6 |
| 11,12-benzofluoranthene (Benzo(k)fluoranthene) (207-08-9) | 610/625 | 0.8 | 1.6 |
| Benzo(ghi)Perylene (191-24-2) | 610/625 | 0.5 | 1.0 |
| Bis(2-chloroethoxy)methane (111-91-1) | 625 | 5.3 | 21.2 |
| Bis(2-chloroethyl)ether (111-44-4) | 611/625 | 0.3 | 1.0 |
| Bis(2-chloroisopropyl)ether (39638-32-9) | 625 | 0.3 | 0.6 |
| Bis(2-ethylhexyl)phthalate (117-81-7) | 625 | 0.1 | 0.5 |
| 4-Bromophenyl phenyl ether (101-55-3) | 625 | 0.2 | 0.4 |
| 2-Chloronaphthalene (91-58-7) | 625 | 0.3 | 0.6 |
| 4-Chlorophenyl phenyl ether (7005-72-3) | 625 | 0.3 | 0.5 |
| Chrysene (218-01-9) | 610/625 | 0.3 | 0.6 |
| Dibenzo (a,j)acridine (224-42-0) | 610M/625M | 2.5 | 10.0 |
| Dibenzo (a,h)acridine (226-36-8) | 610M/625M | 2.5 | 10.0 |
| Dibenzo(a-h)anthracene (53-70-3)(1,2,5,6-dibenzanthracene) | 625 | 0.8 | 1.6 |
| Dibenzo(a,e)pyrene (192-65-4) | 610M/625M | 2.5 | 10.0 |
| Dibenzo(a,h)pyrene (189-64-0) | 625M | 2.5 | 10.0 |

| Pollutant & CAS No. (if available) | Recommended Analytical Protocol | Detection (DL) ¹ µg/L unless specified | Quantitation Level (QL) ² µg/L unless specified |
|--|---------------------------------|--|---|
| 3,3-Dichlorobenzidine (91-94-1) | 605/625 | 0.5 | 1.0 |
| Diethyl phthalate (84-66-2) | 625 | 1.9 | 7.6 |
| Dimethyl phthalate (131-11-3) | 625 | 1.6 | 6.4 |
| Di-n-butyl phthalate (84-74-2) | 625 | 0.5 | 1.0 |
| 2,4-dinitrotoluene (121-14-2) | 609/625 | 0.2 | 0.4 |
| 2,6-dinitrotoluene (606-20-2) | 609/625 | 0.2 | 0.4 |
| Di-n-octyl phthalate (117-84-0) | 625 | 0.3 | 0.6 |
| 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7) | 1625B | 5.0 | 20 |
| Fluoranthene (206-44-0) | 625 | 0.3 | 0.6 |
| Fluorene (86-73-7) | 625 | 0.3 | 0.6 |
| Hexachlorobenzene (118-74-1) | 612/625 | 0.3 | 0.6 |
| Hexachlorobutadiene (87-68-3) | 625 | 0.5 | 1.0 |
| Hexachlorocyclopentadiene (77-47-4) | 1625B/625 | 0.5 | 1.0 |
| Hexachloroethane (67-72-1) | 625 | 0.5 | 1.0 |
| Indeno(1,2,3-cd)Pyrene (193-39-5) | 610/625 | 0.5 | 1.0 |
| Isophorone (78-59-1) | 625 | 0.5 | 1.0 |
| 3-Methyl cholanthrene (56-49-5) | 625 | 2.0 | 8.0 |
| Naphthalene (91-20-3) | 625 | 0.3 | 0.6 |
| Nitrobenzene (98-95-3) | 625 | 0.5 | 1.0 |
| N-Nitrosodimethylamine (62-75-9) | 607/625 | 2.0 | 4.0 |
| N-Nitrosodi-n-propylamine (621-64-7) | 607/625 | 0.5 | 1.0 |
| N-Nitrosodiphenylamine (86-30-6) | 625 | 0.5 | 1.0 |
| Perylene (198-55-0) | 625 | 1.9 | 7.6 |
| Phenanthrene (85-01-8) | 625 | 0.3 | 0.6 |
| Pyrene (129-00-0) | 625 | 0.3 | 0.6 |
| 1,2,4-Trichlorobenzene (120-82-1) | 625 | 0.3 | 0.6 |
| PESTICIDES/PCBs | | | |
| Aldrin (309-00-2) | 608 | 0.025 | 0.05 |
| alpha-BHC (319-84-6) | 608 | 0.025 | 0.05 |
| beta-BHC (319-85-7) | 608 | 0.025 | 0.05 |
| gamma-BHC (58-89-9) | 608 | 0.025 | 0.05 |
| delta-BHC (319-86-8) | 608 | 0.025 | 0.05 |
| Chlordane (57-74-9) | 608 | 0.025 | 0.05 |
| 4,4'-DDT (50-29-3) | 608 | 0.025 | 0.05 |
| 4,4'-DDE (72-55-9) | 608 | 0.025 | 0.05 ¹⁰ |
| 4,4' DDD (72-54-8) | 608 | 0.025 | 0.05 |
| Dieldrin (60-57-1) | 608 | 0.025 | 0.05 |
| alpha-Endosulfan (959-98-8) | 608 | 0.025 | 0.05 |
| beta-Endosulfan (33213-65-9) | 608 | 0.025 | 0.05 |
| Endosulfan Sulfate (1031-07-8) | 608 | 0.025 | 0.05 |

| Pollutant & CAS No. (if available) | Recommended Analytical Protocol | Detection (DL)¹ μg/L unless specified | Quantitation Level (QL)² μg/L unless specified |
|---|--|---|--|
| Endrin (72-20-8) | 608 | 0.025 | 0.05 |
| Endrin Aldehyde (7421-93-4) | 608 | 0.025 | 0.05 |
| Heptachlor (76-44-8) | 608 | 0.025 | 0.05 |
| Heptachlor Epoxide (1024-57-3) | 608 | 0.025 | 0.05 |
| PCB-1242 (53469-21-9) | 608 | 0.25 | 0.5 |
| PCB-1254 (11097-69-1) | 608 | 0.25 | 0.5 |
| PCB-1221 (11104-28-2) | 608 | 0.25 | 0.5 |
| PCB-1232 (11141-16-5) | 608 | 0.25 | 0.5 |
| PCB-1248 (12672-29-6) | 608 | 0.25 | 0.5 |
| PCB-1260 (11096-82-5) | 608 | 0.13 | 0.5 |
| PCB-1016 (12674-11-2) | 608 | 0.13 | 0.5 |
| Toxaphene (8001-35-2) | 608 | 0.24 | 0.5 |

1. Detection level (DL) or detection limit means the minimum concentration of an analyte (substance) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero as determined by the procedure given in 40 CFR part 136, Appendix B.
2. Quantitation Level (QL) is equivalent to EPA's Minimum Level (ML) which is defined in 40 CFR Part 136 as the minimum level at which the entire GC/MS system must give recognizable mass spectra (background corrected) and acceptable calibration points. These levels were published as proposed in the Federal Register on March 28, 1997.